

MGCP & TPNCP

MediaPack MP-124 & MP-11x

Mediant 1000

Release Notes 4.8



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Abbreviations

Each abbreviation, unless widely used, is spelled out in full when first used. Only industry-standard terms are used throughout this manual. Hexadecimal notation is indicated by 0x preceding the number.

Applicable Products

This manual provides additional information for the following AudioCodes products:

MediaPack Series:	MP-124, 24 analog FXS interfaces.
	MP-118, 8 analog FXS or FXO interfaces, or 4 FXS and 4 FXO
	MP-114, 4 analog FXS or 4 FXO interfaces.
	MP-112, 2 analog FXS interfaces.
Mediant Series:	Mediant 1000 Analog (A), 4 to 24 analog FXS/FXO interfaces.

Notice

These Release Notes describe the functionality of the AudioCodes' MediaPack Series Analog Gateways supported by version 4.8. Information contained in this document is believed to be accurate and reliable at the time of printing. However, due to ongoing product improvements and revisions, AudioCodes cannot guarantee the accuracy of printed material after the Date Published nor can it accept responsibility for errors or omissions.

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Reader's Notes

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1 What's New in Release 4.8

1.1 Supported Hardware Platforms

1.1.1 New Hardware Platforms Introduced in This Release

The following hardware platforms are introduced in this version:

Support for MP-118 FXO and FXS+FXO – VI24990, VI26515

- MP-118/FXO with 4 to 8 FXO ports
- MP-118/FXS+FXO with 4 FXS ports and 4 FXO ports. This contains a relay that connects the FXS ports to the FXO ports in case of a power failure.

Support for MP-114 FXO

- MP-114/FXO with 4 FXO ports

1.1.2 Support of the Existing Hardware Platforms

- Mediant 1000, a 19-inch rack-mounted, 1U chassis hosting FXS or FXO modules, up to 4 ports in each module, with a total of 6 modules providing up to 24 ports.
- MediaPack MP-11x/FXS, 2 to 8 analog FXS interfaces, with enhanced CPU resources
 - MediaPack MP-118/FXS, 8 analog FXS interfaces
 - MediaPack MP-114/FXS, 4 analog FXS interfaces
 - MediaPack MP-112/FXS, 2 analog FXS interfaces
- MediaPack MP-124/FXS, 24 analog FXS interfaces

1.1.3 Hardware Platforms No Longer Supported

- MediaPack MP-108/FXS, 8 analog FXS interfaces
- MediaPack MP-108/FXO, 8 analog FXO interfaces
- MediaPack MP-104/FXS, 4 analog FXS interfaces
- MediaPack MP-104/FXO. 4 analog FXO interfaces
- MediaPack MP-102/FXS, 2 analog FXS interfaces

1.2 Analog Interface New Features

1. MP line testing – VI31807

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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MP-118 Line-Testing. Returns a collection of status information which related to the tested line.

2. Full Mesh Routing - MP-11x – VI26365

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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MP-118 supports a combination of FXS and FXO channels (4 FXS and 4 FXO channels). Each FXS channel has a lifeline which is connected to a FXO channel [channel 1 (FXS) to channel 5 (FXO)], [channel 2 (FXS) to channel 6 (FXO)] and so on. The Lifeline is activated according to "LIFELINETYPE" parameter.

3. FXS gateway generates WINK if it receives HookFlash signal over RFC 2833 – VI30582

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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Packets that are received from the network side, that contain the Hookflash signal, cause the FXS gateway to generate a WINK. (Polarity reversal followed by HookFlash Timeout and another Polarity reversal). The packet received from the network side must be according to RFC 2833.

4. MP-11x FXO Coefficients for each country

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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Starting from version 4.8 there is no need to load the coefficient file for the MP-11x/FXO gateways. Instead there is single parameter, shown in the table below, to define each country variant. CountryCoefficients = 70 (default USA)

Argentina /0	Australia /1	Austria /2	Bahrain /3
Belgium /4	Brazil /5	Bulgaria /6	Canada /7
Chile /8	China /9	Colombia /10	Croatia /11
Cyprus /12	Czech Republic /13	Denmark /14	Ecuador /15
Egypt /16	El Salvador /17	Finland /18	France /19
Germany /20	Greece /21	Guam /22	Hong Kong /23
Hungary /24	Iceland /25	India /26	Indonesia /27
Ireland /28	Israel /29	Italy /30	Japan /31
Jordan /32	Kazakhstan /33	Kuwait /34	Latvia /35
Lebanon /36	Luxembourg /37	Macao /38	Malaysia /39
Malta /40	Mexico /41	Morocco /42	Netherlands /43
New Zealand /44	Nigeria /45	Norway /46	Oman /47
Pakistan /48	Peru /49	Philippines /50	Poland /51
Portugal /52	Romania /53	Russia /54	Saudi Arabia /55
Singapore /56	Slovakia /57	Slovenia /58	South Africa /59
South Korea /60	Spain /61	Sweden /62	Switzerland /63
Syria /64	Taiwan /65	TBR21 /66	Thailand /67
UAE /68	United Kingdom /69	United States /70	Yemen /71

5. Mediant 1000 Analog Coefficient File

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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In the Mediant 1000 Analog FXO, the coefficients are set according to the 4 coefficient files below:

Mediant 1000 Analog FXO coefficients file types:

- 1) MP1xx12-1-12khz-fxo.dat - supports detection of 12 kHz metering tone.
- 2) MP1xx12-1-16khz-fxo.dat - supports detection of 16 kHz metering tone.
- 3) mp1xx10-2-16khz-TBR21-fxo.dat - supports detection of 16 kHz metering tone; complies with TBR21 standard (Pan European).
- 4) MP1xx10-4-16khz-fxo-low-frq-ring.dat - supports detection of 16 kHz metering tone; enables detection of low ring frequencies (under 20 Hz).

* Case metering type (16 kHz or 12 kHz) is not important; it is recommended to use coefficients file number 2.

1.3 Networking New Features

6. Support for IP Multicast Support – VI25148

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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Supports reception of multicast RTP streams – the board can join an IP multicast group in order to receive an RTP stream generated by a remote server (e.g. a Music-On-Hold stream) to a multicast IP address.

7. PPPoE – VI27407

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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Version 4.8 enables AudioCodes products to function as a PPPoE (Point-to-Point Protocol over Ethernet) client, allowing the user to integrate it in a broadband access architecture (mostly in ISP networks).

8. Support in multiple IPs - dual mode separating the Media from the others – VI27303

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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Multiple IP configuration available with 2 networks configuration, network for the Media and network for all the others (OAM & CC)

1.4 Security New Features

9. IPSec - Support for MP-11x - VI28376

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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IPSec is now supported on the MP product line in addition to the existing support on the Mediant and TP products.

10. IPSec support on the Mediant 1000 – VI25759

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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Added support for IPSec on Mediant 1000.

11. IPSec - Authentication using Certificates – VI22394

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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In addition to the pre-shared key authentication method, IPSec can now support certificate-based authentication.

12. SRTP Media Encryption – VI26411

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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Version 4.8 now supports SRTP (Secured RTP) media encryption, according to RFC 3711. SRTP can be used with MGCP and VoPLib API.

13. Network Access Control List – VI24993

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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Version 4.8 supports an internal firewall for filtering and throttling of incoming data. The access control list can be configured via the Web interface.

14. Multiple sessions in Telnet and command shell – VI24742

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124
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Up to 5 concurrent Telnet sessions are supported.

1.5 Voice, Data, RTP and RTCP New Features

15. ThroughPacket Enhancements – VI26503

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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Support for DTMF relay according to RFC 2833 and support for the EVRC coder were added to the ThroughPacket protocol.

16. Add a DiffServ value in the activateRTP_RTCP cmd – VI31134

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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Users should use PremiumServiceClassMediaDiffServ instead of the IPDiffServ parameter (which become obsolete in 4.8).

17. BV16 support – VI26481

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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Support BV16 coder RTP to RTP mediation without transcoding according to draft-ietf-avt-rtcp-bv-04.

18. Voice Menu for Status and Configuration – VI25501

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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FXS devices can now be configured using an analog telephone connected to port #1. Start the device and dial ***12345 to access the voice menu.

1.5.1 Supported DSP Firmware Templates:



Note 1: Installation and use of vocoders is subject to obtaining the appropriate license in advance of use, and to royalty payments.

Note 2: When using DSP firmware template 0, G.729 and G.723.1 **should not** be used simultaneously on the same device.

■ MP-124:

- 0 = DSP firmware supports PCM/ADPCM, G.723, G.729A
- 2 = Reserved
- 3 = Reserved

■ MP-11x:

- 0 = DSP firmware supports PCM/ADPCM, G.723, G.729A

- 1 = Reserved
- 2 = Reserved
- 3 = Reserved

1.6 Control Protocols New Features

1.6.1 MGCP New Features

19. MGCP SL Package – VI27411

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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Support for MGCP Signal List (SL) was added according to RFC 3660.

20. Coder and Payload Type Configuration File – VI21347

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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This feature allows the user to define coder names and default payload type values using an external configuration file.

As part of the implementation, the following new coders are supported:

1. iLBC (only for BCT calls in MEGACO)
2. BV16 (only for BCT calls in MEGACO)
3. EVRC0 - This is not a new coder. Actually it is the old EVRC coder, that has the correct name in the SDP according to RFC 3558.

Control Support for TrFO Vb16/Lbc.



Note: MEGACO (H.248) and VoPLib/TPNCP are currently **not** supported on the MP product line.

21. MGCP SRTP Package – RFC 3711-SRTP – VI27152

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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New MGCP extension parameter “X-srtp” enables media streaming encryption according to RFC 3711.

22. STUN support for MGCP – VI26962

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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MGCP can now use STUN (RFC 3489) to allow the Media Gateway Controller to control a Media Gateway that is placed behind a NAT device.

23. MGCP Enhancements – VI19529, VI21259, VI21610

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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Support for disconnection procedure was added according to RFC 3435. Support for retransmission and detection of lost associations was added according to RFC 3435.

1.7 Provisioning and Management New Features

24. Logging of Configuration and Management Activities – VI25134

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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The following management activities can now be logged to Syslog: Parameter Value Changes, Auxiliary Files Loading, Device Reset, Flash Burning, Software Update, Access to Restricted Domains, Non Authorized Access, changes to Sensitive Parameters.

25. Mediant 1000 Chassis Management – VI28587

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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Version 4.8 allows management of the Mediant 1000 chassis via SNMP. The status of the CPU and I/O modules, fan tray, power supplies, Power Entry Module (PEM) and other alarms are reported.

26. Performance Monitoring Enhancements – VI27221

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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Performance Monitoring now includes various STUN related counters: counters that count the number of queries sent to the STUN server, the number of discovery processes initiated, and the number of re-transmissions made.

27. Support for Automatic Update via FTP – VI24845

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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Downloading of configuration files via FTP is now possible. For example, specify IniFileUrl='ftp://user:password@ftpserver.customer.com/acl/config.ini'.

28. Voice Menu for Status and Configuration – VI25501

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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MP-118 FXS devices can now be configured using an analog telephone connected to port #1. Start the device and dial ***12345 to access the voice menu.

1.7.1 Embedded Web Server New Features

29. Network access control list – VI28146

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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Internal firewall for filtering and throttling incoming data. The access control list may be configured via the Web interface at 'Advanced Configuration' -> 'Security Settings' -> 'Firewall Settings' page.

30. High-level Channel Status View – VI5187

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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The current Web channel status tables now contain more high-level information that can be useful for customers in 3 tables: basic, RTP/RTCP, Voice Status.

31. Support IPSec Web interface on MP-11x + Mediant 1000 – VI29167

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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Users can now view and configure IPSec and IKE tables via Web interface at: 'Advanced Configuration' -> 'Security Settings' -> 'IKE Table' or 'IPSecTable'.

32. Web multi password level management – VI29484

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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Apply the following Web access scheme when RADIUS is not enabled:

1. Board can hold up to 2 different user - password pairs.
2. Each User-Password pair is attached to a predefined access level (ranging from 0-255) - at this stage there are 3 access levels Administrator, Security Administrator, Monitoring (can be widened in the future).
3. By default board is configured with 2 user - password pairs:
Admin/Admin - Security Administrator.

User/User - Monitoring.

4. ResetWebPassword reverts all password-username pairs to default configuration.

33. Add RAM/flash size to Web – VI32004

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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Added hardware status like FLASH size to the Device Information page

34. SNMP community string configuration via Web interface – VI29052

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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New Web support for adding/deleting SNMP community strings for 2 level access RO/RW and access for changing trap community string.

35. Web Access Levels – VI25135

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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Version 4.8 allows access control to individual Web users and pages. An Access Level in the range of 1 to 255 is defined for each Web user, while each Web page is assigned a 'Write Access Level' and a 'Read Access Level' values.

1.7.2 SNMP New Features

36. HTTP download report trap – VI27849

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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This trap indicates the result of a recent file download (includes HTTP error code, if available).

37. VLAN support on SNMP – VI22503

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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Full support of VLAN configuration parameters in a proprietary MIB (acSystem MIB)

38. Added RTP Multiplexing (ThroughPacket) parameters to SNMP interface – VI26364

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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Aggregation UDP port parameters in proprietary MIB. (acMedia)

39. SNMP support for the network access list – VI28099

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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Support of the access list (firewall) as implemented via VI24993. Proprietary MIB (acSystem). Version 4.8 supports an internal firewall for filtering and throttling of incoming data. The access control list can be configured via the Web interface.

40. SNMP NAT traversal: Keep-alive trap redirection – VI30084

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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Since the Keep Alive trap is sent very often [could be every one second], some management systems may require that the keep alive trap be sent to a different UDP port.

41. Support "sysObjectID" via SNMP – VI30085

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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Like MIB-Object's definition. Should point to a product that define in AC-TYPES.my.

42. Add SNMP Trap for FXO line disconnection/re-connection – VI24377

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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A new column was added to the channelStatus table (in the acBoard MIB) - channelHookState. It returns one of the following:

Value list:

1: nonAnalogDevice (-1)

2: offHook (0)

3: onHook (1)

Note: the acBoard MIB is deprecated. This column was nevertheless added.

43. Active analog lines - performance counter – VI27222

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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Support for analog PM

1.8 NAT Traversal

44. STUN support for MGCP – VI26962

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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MGCP can now use STUN (RFC 3489) to allow the Media Gateway Controller to control a Media Gateway that is placed behind a NAT device.

45. Keepalive Packets on the Media Path (RTP) for NAT Traversal - VI21170

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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To enable NAT traversal for the RTP streams, version 4.8 now supports RTP NO-OP packets according to the avt-rtp-noop draft. This method ensures that the NAT binding remains open in RTP silence periods.

46. SNMP NAT traversal: Keep-alive trap redirection – VI30084

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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Since the Keep Alive trap is sent very often [could be every one second], some management systems may require that the keep alive trap be sent to a different UDP port.

1.9 Miscellaneous New Features

47. Multiple sessions in Telnet and command shell – VI24742

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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Up to 5 concurrent Telnet sessions are supported.

48. Protected console port – VI26359

Mediant 1000 A	MP-112	MP-114/MP-118	MP-124	FXS	FXO
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The configuration parameter DisableRS232 may be used to block access to the command-line interface through the console (RS-232) port.

1.10 Documentation Changes

Emphasis of VI number

Update of Documentation Number.

2 Known Constraints in 4.8



Note: After loading and burning a *cmp* file to the boards flash memory, Users must reload all other downloadable data files (Call Progress Tones file, Voice Prompts file, etc.). This is due to the fact that in the *cmp* loading and burning process all the data files that were previously stored on flash are erased.

2.1 MP-118 FXO Constraints

1. NTT Ring Detection is **not** supported (with or without caller id).
2. Indian Caller ID detection is **not** supported.
3. Metering tone (billing) detection is currently **not** supported

2.2 Analog Interface Constraints

4. MP-124 rev A and MP-124 rev B do **not** support the following:
 - Long haul
 - Caller ID generation
 - MWI generation

2.3 Host API Constraints

5. The VoIPLib API is **not** supported on the MediaPack product line.

2.4 IP Networking Constraints

6. In some scenarios, an IPSec connection might drop after several hours. This is to be solved in a fix version. [VI26970]
7. SRTP is **not** supported in Mediant 1000 Analog. [VI33928]
8. VLAN Pass-Through mode is **not** supported. [VI24434]
9. In some cases having spanning tree enabled on the external Ethernet switch port connected to the board, causes the external switch to block any traffic coming in and out of the board for some time after the board is reset.
This may cause the loss of important packets such as BootP and TFTP requests which in turn may cause the board to fail to start up.
A possible workaround is to set the BootPRetries ini file parameter to 5, causing the board to issue 20 BootP requests for 60 seconds.
A second workaround would be to disable the spanning tree on the port of the external switch which is connected to the board.
10. Configuring the board to auto-negotiate mode while the opposite port is set manually to full-duplex (either 10 Base-T or 100 Base-TX) is invalid. It is also invalid to set the board to one of the manual modes while the opposite port is configured differently.

The User is encouraged to always prefer full-duplex connections instead of half-duplex, and 100 Base-TX instead of 10 Base-T (due to the larger bandwidth).

2.5 Voice, Data, RTP and RTCP Constraints

11. The Duration field of the acEV_END_TONE_DETECTED event may be inaccurate when the detected Call Progress Tone is cadence based tone. The variation might be up to 1 period time longer than the actual tone duration. [AC25097]
12. The level field in the detection event of burst tone should be ignored (is always equal to -63 dBm). [AC21866]
13. Voice-prompt barge-in parameter can **not** be used when concatenating voice prompt commands. [AC21553]
14. When RTP packets are received after a sudden large delay (200 to 300 msec) in the network, the drift correction could take about 5 seconds. In this period of time, voice, towards the TDM side is silent. This constraint does not exist on the TP-6310. [AC21538]
15. The MS-GSM coder does **not** work with previous software versions of AudioCodes products. [AC19717]
16. NTT caller ID type 2 constraints - The NTT standard describes the CallerID type 2 generation as a sequence of an incoming-call signal, "C" & "D" DTMFs and FSK modulated Data. Generation of the incoming call signal remains in the responsibility of the application, but "C", "D" and the FSK are generated by the supplied service. The signal can be generated using the UDT signal generation mechanism. Prior to the detection of NTT CallerID type 2 there are 2 DTMF ("C" and "D") detections which remain unscreened.
17. Constraints for pre-recorded tones [AC10234]:
 - A Pre-recorded Tone can **not** be played using the acPlayToneSequence command
 - If a Pre-recorded Tone is played using the acUserDialTimingImmediately option in UserPlayTiming parameter of the acPlayTone command in the middle of a Voice Prompt playback, the Voice Prompt playback does **not** continue when the Pre-recorded Tone playback has ended
18. Mediation without transcoding should have same RTP packet interval on both mediating channels, both on sending and receiving. [VI16043]
19. RTP packing factor (M) is limited to 1 for the AMR and GSM-EFR coders. [VI17287]
20. When using the Transparent-With-Events Fax & Modem settings, the Channel MUST be reopened after each Fax/Modem session.
21. Closing a channel during a User Defined Tone detection can cause unexpected IBS events in the next IBS detection on this DSP channel. [VI15984]
22. When the IBS detector is pointed towards the network, Fax & Modem tones are **not** detected from the TDM side.
23. When working with M-factor=6, spurious packet loss may occur. It is recommended therefore to use M-factor < 6. [VI15341]
24. Setting the V.21 Transport Type to Bypass and Fax Transport Type to relay results in entering Fax Relay mode at the 2100 Hz signal. Only at the end of this signal, does the

channel enter Bypass mode. [VI15755]

- 25. If PCM LoopBack is activated, there is no way of knowing if a new channel being opened is in LoopBack state or not. The parameter should only be used for test-purposes.
- 26. DTMF Relay mode is **not** operational with channels set to PCI transport.
- 27. RFC 2198 redundancy mode with RFC 2833 is **not** supported (that is, if a complete DTMF digit was lost, it is **not** reconstructed). The current RFC 2833 implementation does support redundancy for inter-digit information lost.
- 28. When using FaxTransportType = TransparentWithEvents, the Fax events parameters regarding the side of the fax call (answering or calling) and the number of pages are invalid.
- 29. The function acAddDestinationPoint() can **not** connect between 2 TDM end points
- 30. In the HBR channel of the mediation-with-transcoding session, only voice streaming is available. All DSP detectors and generators are **not** supported.
- 31. Transcoding is **not** supported with coder frame sizes other than the default size (refer to SampleBasedCodersRTPPacketInterval). [VI16010]
- 32. The M factor when using EVRC coder can be greater than “1” only when the EnableRFC2658Interleaving parameter is set to “2”.
- 33. A channel should **not** be reopened during IBS detection. Such an action could cause the detector to send multiple events on the same IBS input.
- 34. The number of channels operating in internal IP loopback mode that can be supported by the board is usually less than the declared channel capacity.
- 35. The resolution of the duration of digits On and Off time when dialing to the network using RFC 2833 relay, is dependent on the basic frame size of the coder being used.
- 36. Incoming CNG T.38 packets do **not** switch the channel to T.38 mode.
- 37. When CNG detector is not Transparent, a CNG tone received from the TDM can **not** be detected using the Call Progress Tone detector.
- 38. When using a sample interval of 10 msec or 5 msec, the channels capacity might be reduced.
- 39. When a channel is opened with many multiple RTP listeners (>15), VoiceSettings.M is limited to 2.



Note: MEGACO (H.248) and VoPLib/TPNCP are currently **not** supported on the MP product line.

2.6 MGCP Constraints

- 40. The ‘mptime’ value is **not** supported on remote SDP. [VI25732]
- 41. TimeOut symbol is **not** supported in Digit Range. That is, D/[0-9A-D#*T] can **not** be used. User should remove the ‘T’ symbol. [VI25585]

- 42. RBK signal is **not** supported. It is recommended that Call Agents use "rt@connectionID" instead of "rbk(connectionID)" for ring-back over a connection. [VI25606]
- 43. G.728 works only with Packetization Period which is a multiple of 20 sec. [VI25722]
- 44. MGCPVersion configuration parameter is **not** functional. [VI25730]
- 45. Network loopback mode is **not** functional on TP-6310. [VI25450]
- 46. RG signal can **not** be generated immediately after an RS signal. [25847]
- 47. Long DTMF feature does **not** function correctly. [VI16373]
- 48. TTY signals do **not** function correctly. [VI12747]
- 49. When no Call Agent is provisioned the device crashes upon receiving an MGCP command (SWWD). [VI33607]
- 50. If a device never established a connection with its Call Agent and it enters a disconnected procedure, then the device crashes upon receiving an MGCP command (SWWD). [VI33767]
- 51. TGCP does **not** support encrypted connections. [VI33137]
- 52. When the device is behind a NAT and is using a STUN server, an attempt by Call Agent to CRCX an endpoint that is already associated with an active connection results in disabling the endpoint. [VI34048]
- 53. When the device uses a DNS server to locate the Call Agent and it enters a retransmission procedure it sends more than the required number of retransmissions. [VI33918]
- 54. When the device is reset and active calls are present, the device DLCX calls, the limitation is that the first DLCX does **not** contain the required connection statistics. [VI33296]
- 55. DLCX commands with a * and only a call ID fails - commands of the form:
DLCX 9665 *@AudioCodes1 MGCP 1.0
C: A3C47F21456789F0
[VI33165]
- 56. When using TGCP profile the 'mptime:' field shows wrong values if no coders are specified in the Local Connection Options.[VI33755]
- 57. The *ini* file parameter 'RANDOMIZETRANSACTIONID' does **not** function. [VI33442]
- 58. When a request to detect certain events on the device is rejected (502 FAIL), the requested events to be detected are registered with the endpoint, although rejected. [VI33377]
- 59. AUDC Call Agent application does **not** support piggy backing, security, Calea, new endpoint naming schemes and new packages/updates to current packages [VI33159]
- 60. Setting Call Agent IP and Port is **not** possible via TPNCP. [VI32999]
- 61. Applying MDCX to a connection, while a signal is played restarts the signal playing. [VI31228]
- 62. The *ini* file parameter 'MGCP EndpointNumberingOffset' is **not** functional for non-analog

devices (TP series). [VI30943]

63. The *ini* file parameter 'MGCPACTIVEENDPOINTS' does **not** function. [VI30926]

2.7 Embedded Web Server Constraints

64. When using the Web upgrade wizard to upgrade from 4.6 to 4.8, reload the coefficients file in the wizard and do **not** use the 'Use Existing File' option. [VI26505]
65. Incorrect values are displayed on the "Firewall settings" Web page, after the firewall rules are manipulated, using SNMP. The problem only occurs when mixing management interfaces; i.e., working with the Web interface, then switching to SNMP, then switching back to the Web. [VI33537]
66. Can **not** access the device's Web interface using HTTPS using Microsoft™ Internet Explorer if DES/3DES is selected. If the device is configured to use the DES cipher, a logic error in Microsoft™ Internet Explorer would cause the HTTPS connection to fail. This problem does not occur when using alternative browsers, such as Firefox™. [VI33976]
67. An *ini* file with parameters in table format can **not** be sent to a board. [VI34029]
68. The Enable Debug Mode option in the MGCP Advanced Configuration screen, does **not** display all the available values (i.e., 2 & 3). [VI33866]
69. The Get Complete INI File option on the FAE page, is **not** available in the non-lab version. [VI33685]
70. Logo and product name revert to default with an empty *ini* file. [VI33458]
71. Users can **not** enter a username/password with 8 chars length. [VI33337]
72. When "Access to Restricted Domains" is set to ON, all attempts to enter security pages sends a Syslog message, apart from CERTIFICATES page (both Security/certificates and SSLCertificateSR pages). [VI32317]
73. Parameter values set commands that are sent to the Syslog. Values are shown which are offset from the values entered in the Web; e.g., when VoiceVolume is set to X, the Syslog message indicates the value X+32. [VI32310]
74. When configuring the RadiusAuthServerIp parameter with a non-existent server IP, the BehaviorUponRadiusTimeout parameter value is ignored. [VI32071]
75. The number of lines printed in the CMD in the FAE page is limited. [VI28877]

2.8 SNMP Constraints

76. The default values created in an IPSec configuration table are wrong. The user should override the default values before activating the new row. [VI25564]
77. The configuration parameter SNMPManagerIP becomes obsolete in the next version and is replaced by SNMPManagerTableIP.
78. Only one SNMP manager can access the boards/modules at one time.
79. Changing some MGCP default parameters (e.g., Voice volume) via SNMP is **not** supported, as it is possible to change them dynamically through MGCP commands on a call-by-call basis.

80. The following RTP MIB objects are **not** supported:

rtpRcvrSRCSSRC
rtpRcvrSSRC
rtpSenderSSRC
rtpRcvrLostPackets
rtpRcvrPackets
rtpSenderPackets
rtpRcvrOctets
rtpSenderOctets [VI13465]

2.9 Miscellaneous Constraints

81. Flash-burning control for specific files (BurnCASFile, BurnCallProgressToneFile, BurnVXMLFile, BurnVoicePromptsFile) is no longer supported. Everything is now controlled by the new parameter SaveConfiguration.

3 Previous Revision (version 4.6)

3.1 Supported Hardware Platforms in 4.6

3.1.1 New Hardware Platforms Introduced in This Release

- The following hardware platforms are introduced in this version:
 - MediaPack MP-11x/FXS, 2 to 8 analog FXS interfaces, with enhanced CPU resources
 - MediaPack MP-118/FXS, 8 analog FXS interfaces
 - MediaPack MP-114/FXS, 4 analog FXS interfaces
 - MediaPack MP-112/FXS, 2 analog FXS interfaces
 - Mediant 1000, a 19-inch rack-mounted, 1U chassis hosting FXS or FXO modules, up to 4 ports in each module, with a total of 6 modules providing 24 ports.

3.1.2 Support of the Existing Hardware Platforms

- MediaPack MP-124/FXS, 24 analog FXS interfaces
- MediaPack MP-108/FXS, 8 analog FXS interfaces
- MediaPack MP-108/FXO, 8 analog FXO interfaces
- MediaPack MP-104/FXS, 4 analog FXS interfaces
- MediaPack MP-104/FXO. 4 analog FXO interfaces
- MediaPack MP-102/FXS, 2 analog FXS interfaces

3.1.3 Hardware Platforms No Longer Supported

Not applicable.

3.2 Analog Interface New Features

1. Support was added for generation of the following Caller ID type-1 standards: ETSI before ring DT AS, ETSI before ring RP AS, ETSI before ring LR DT AS, ETSI not ring-related DT AS, ETSI not ring-related RP AS, ETSI not ring-related LR DT AS, Bellcore not ring related and Brazilian. **AC13878**
2. Support was added for generation of the following Message Waiting Indication type-1 standards: ETSI before ring DT AS, ETSI before ring RP AS, ETSI before ring LR DT AS, ETSI not ring-related DT AS, ETSI not ring-related RP AS, ETSI not ring-related LR DT AS, Bellcore not ring-related. **AC13878**
3. **MP-104/MP-108 FXO only** - A new parameter TimeToSampleAnalogLineVoltage enables the user to control the timing of the analog line voltage sample, which sets the default

threshold for the current disconnect. **AC24727**

4. **MP-104/MP-108 FXO only** - A new parameter `CurrentDisconnectDefaultThreshold` enables the user to control the minimum voltage threshold for the current disconnect. **AC24727**

3.3 Networking and Security New Features

5. Network Separation - Media, Control and Management traffic can now be separated to 3 different networks. Instead of a single IP address, the user is now able to assign 3 IP addresses and subnet masks to each board, one for each traffic type. **AC20028**
6. VLAN tagging - earlier versions supported QoS tagging in the IP layer (IPTOS / Precedence or Diffserve). Version 4.6 introduces the capability to define tagging in the Ethernet layer, according to 802.1p/Q. Tagging is supported both for Tx and for Rx. **AC18791**
7. NAT Traversal – this version introduces several features that enable NAT traversal for the management, control and media interfaces. These features include SNMP/EMS NAT traversal, automatic software and configuration update via HTTP and a STUN client that can detect the presence of a NAT device and its type. **AC18778**
8. For far-end NAT traversal, T.38 now supports the first incoming packet detection, similar to the RTP mechanism. **AC21008**

3.4 Media Engines New Features

3.4.1 Voice, RTP and RTCP New Features:

9. **For MP-11x and Mediant 1000 only** - SID packets that are sent and received according to RFC 3389 can now contain spectral coefficients information. The user can choose the number of coefficients to be added to the SID packets using the `RTPSIDCoeffNum` parameter with the values of 0 (default), 4, 6, 8 or 10. **AC18775**
10. It is now possible to set the remote RTCP port to a value other than RTP port+1. **AC21005**
11. Support for *ThroughPacket* – an aggregation mechanism that reduces the bandwidth consumed by the media stream.

3.4.2 Modem/Fax New Features:

12. Detection and bypass of Bell 103 modem is now supported and controlled using the parameter `BellModemTransportType`. **AC19976**
13. Fax CNG tone detection was improved by increasing the detection duration. **AC18757**
14. When using Transparent-With-Events fax and modem transport mode, the Echo Canceler and NLP are automatically disabled and enabled according to the fax/modem signal being detected. **AC19777**

3.4.3 In-Band Signaling New Features:

15. **MP-11x and Mediant 1000 only** - The In-Band-Signaling (IBS) capabilities have been enhanced, supporting more tones and frequencies and more complex tones. **AC19494**
 - Tones with AM Modulation

- Up to 4 cadences per tone
 - 32 Call Progress or User Defined Tones
 - Up to 64 different frequencies
 - Generation of voice during off time of the tone cadence of Call Waiting Tone
 - Burst tones
16. The new IBS module supports generation of a continuous tone in any given one or two frequencies using the `acPlayToneSequence` function. **AC15849**
17. Support for the NTT CallerID type 2 (off hook), injection and detection. Added a name field for the NTT CallerID, which is available in NTT CallerID type 1 (on hook) and type 2. **AC18774**

3.4.4 Supported DSP Firmware Templates:



Note 1: Installation and use of vocoders is subject to obtaining the appropriate license in advance of use, and to royalty payments.

Note 2: When using DSP firmware template 0, G.729 and G.723.1 **should not** be used simultaneously on the same device.

■ MP-10x and MP-124:

- 0 = DSP firmware supports PCM/ADPCM, G.723, G.729A
- 1 = DSP firmware supports PCM/ADPCM and NetCoder
- 2 = Reserved
- 3 = Reserved

■ MP-11x:

- 0 = DSP firmware supports PCM/ADPCM, G.723, G.729A
- 1 = Reserved
- 2 = Reserved
- 3 = Reserved

3.5 Control Protocols New Features

18. The digit collection mechanism (DigitMap) is now enhanced and support the new features described in H.248.16. **AC18764**

3.6 Provisioning and Management New Features

19. The system can now be configured to periodically check for an updated software image (CMP) or configuration (ini) on a remote HTTP server. When an update is detected, the new file is loaded to the board automatically. This mechanism can be used even for CPE

devices that are installed behind NAT and firewalls. Refer to the parameters IniFileURL and CmpFileURL. **AC19175**

- 20. New configuration parameter RESETNOW=1 causes the AudioCodes device to reset after the new configuration file has been loaded via IniFileURL. **AC22438**
- 21. CommandShell - a Command Line Interface (CLI) is available for basic configuration and diagnostics purposes. The CommandShell can be accessed via the embedded Web server, Telnet, or RS-232 (when available). **AC22103**
- 22. The new Performance Monitoring infrastructure allows collecting and retrieving current and historical performance data. The information can be retrieved via SNMP, Web and the CLI. **AC19453**
- 23. Logging to Syslog of on-the-fly configuration changes (Web, SNMP) is now supported. To enable, set ENABLEPARAMETERSMONITORING to 1. **AC18776**
- 24. Up to now, upgrading the CMP image on the non-volatile memory (flash) sometimes caused the configuration files (e.g., call-progress tones, coefficients, private labeling logo) to be deleted. A new allocation mechanism protects existing files and allows the CMP to be burned independently. **AC18255**
- 25. The EMS can now configure and manage devices that are placed in private networks behind NAT and firewalls. **AC17616**

3.6.1 Embedded Web Server New Features

- 26. **MP-11x and MP-124 only** - Allow secure (encrypted) access to the device's embedded Web server, using the HTTPS protocol. **AC17519**
- 27. User can define up to 10 authorized client IP addresses that are permitted to contact the board via Web or Telnet interface. The interface allows addition and deletion of authorized IP addresses and can be found at: → Advanced Configuration → Network Setting → Web & Telnet Access List. **AC22277**
- 28. An improved and enhanced Web interface is now available to configure MGCP/MEGACO settings. Interface is available at the 'Protocol Management' link. **AC19259**
- 29. Graceful shutdown is now supported for MEGACO and MGCP via the embedded Web server. User can choose to reset device in a graceful shutdown manner that delays reset according to a predefined timer and/or termination of all open calls. **AC18801, AC18799**
- 30. The Web interface is protected by a system password. The maximum length of the administrator's name and password is now 19 characters. Note that if a long password is set and then the user goes back to version 4.4. or earlier, the user and password are deleted (changed to blank). **AC18779**
- 31. **MP-11x and MP-124 only** - Up to this version we supported authentication of a single Web user/password, which was stored internally. We now enable an alternative method to authenticate the Web user, using an external RADIUS server. In this mode, the system does not store the user and password, but simply forwards them to the pre-configured RADIUS server for authentication. The parameter WebRadiusLogin enables or disables this feature. The internal Web password is not disabled by this feature; it can be used as a fallback mechanism in case the RADIUS server is down. Note that using a RADIUS server implies that HTTP passwords are sent over the network in the clear. Consider setting HTTPSONLY=1 if using this feature. This feature also applies to the Telnet interface. **AC18777**
- 32. Two levels of Web access are defined:

Administrator – Read/Write, Monitor – Read-Only.
Default user/password are: Administrator – Admin/Admin, Monitor – User/User.
Both levels can use strings up to 19 characters long. ResetWebPassword parameter defaults both levels. Each level can change its password on-line. Full compatibility with previous versions - former Administrator level password is preserved and the new monitoring level password starts in its default values. **AC18767**

- 33.** The Web access list controls which computers (specified by IP address) may connect to the device's Web interface. Specify WEBACCESSLIST=0.0.0.0 to enable access from any computer (default). **AC18762**
- 34.** Web pages can be viewed in popup blocking Web browsers as long as javascript is enabled. If javascript is disabled in the browser then a correct message is displayed. **AC18281**

3.6.2 SNMP New Features

- 35.** DateAndTime varbind was added to all AC traps. **AC19042**
- 36.** A new *ini* file parameter allows the use of host name (FQDN) for the configuration of one SNMP manager. The resolved IP appears in the bottom row of the trap managers table. **AC12803**

3.7 Miscellaneous New Features

- 37.** When the device is configured to use DHCP, option 60 in the DHCP Request is set to the full product name. **AC24499**

3.8 Documentation Changes

Update of Documentation Number.

Reader's Notes

4 Known Constraints in 4.6



Note: After loading and burning a *cmp* file to the boards flash memory, Users must reload all other downloadable data files (Call Progress Tones file, Voice Prompts file, etc.). This is due to the fact that in the *cmp* loading and burning process all the data files that were previously stored on flash are erased.

4.1 New-Hardware Constraints

1. **Mediant 1000** - Only specific combinations of FXS and FXO modules are currently supported. For details, contact AudioCodes.
2. **MP-11x** - After running the procedure for restoring the factory defaults, the board must be reset again by a hardware reset. If a software reset is issued, the board returns to the factory defaults again. [VI26599]

4.2 Analog Interface Constraints

3. MP-124 rev A and MP-124 rev B do NOT support the following:
 - Long haul
 - Caller ID generation
 - MWI generation
4. On FXO, polarity reversal detection while using 12 kHz coefficients file ("MP1xx12-1-12khz-fxo") is **not** functional. [VI9644]

4.3 Host API Constraints

5. The VoIPLib API is **not** supported on the MediaPack product line.

4.4 IP Networking Constraints

6. VLAN Pass-through mode is **not** supported. [VI24434]
7. In some cases having spanning tree enabled on the external Ethernet switch port connected to the board, causes the external switch to block any traffic coming in and out of the board for some time after the board is reset.
This may cause the loss of important packets such as BootP and TFTP requests which in turn may cause the board to fail to start up.
A possible workaround is to set the BootPRetries *ini* file parameter to 5, causing the board to issue 20 BootP requests for 60 seconds.
A second workaround would be to disable the spanning tree on the port of the external switch which is connected to the board.
8. Configuring the board to auto-negotiate mode while the opposite port is set manually to full-duplex (either 10 Base-T or 100 Base-TX) is invalid. It is also invalid to set the board to one of the manual modes while the opposite port is configured differently.
The User is encouraged to always prefer full-duplex connections instead of half-duplex,

and 100 Base-TX instead of 10 Base-T (due to the larger bandwidth).

4.5 Media Engines Constraints

9. The Duration field of the acEV_END_TONE_DETECTED event may be inaccurate when the detected Call Progress Tone is cadence based tone. The variation might be up to 1 period time longer than the actual tone duration. [AC25097]
10. The level field in the detection event of burst tone should be ignored (always -63 dBm). [AC21866]
11. Voice-prompt barge-in parameter can **not** be used when concatenating voice prompt commands. [AC21553]
12. When RTP packets are received after a sudden large delay (200 to 300 msec) in the network, the drift correction could take about 5 seconds. In this period of time, voice, towards the TDM side is silent. [AC21538]
13. The MS-GSM coder does **not** work with previous software versions of AudioCodes products. [AC19717]
14. NTT caller ID type 2 constraints - The NTT standard describes the CallerID type 2 generation as a sequence of an incoming-call signal, "C" & "D" DTMFs and FSK modulated Data. Generation of the incoming call signal remains the responsibility of the application, but "C", "D" and the FSK are generated by the supplied service. The signal can be generated using the UDT signal generation mechanism. Prior to the detection of NTT CallerID type 2 there are 2 DTMF ("C" and "D") detections which remain unscreened.
15. Constraints for pre-recorded tones [AC10234]:
 - A Pre-recorded Tone can **not** be played using the acPlayToneSequence command.
 - If a Pre-recorded Tone is played using the acUserDialTimingImmediately option in UserPlayTiming parameter of the acPlayTone command in the middle of a Voice Prompt playback, the Voice Prompt playback does **not** continue when the Pre-recorded Tone playback has ended.
16. RTP packing factor (M) is limited to 1 for the AMR and GSM-EFR coders. [VI17287]
17. When using the Transparent-With-Events Fax & Modem settings, the Channel MUST be reopened after each Fax/Modem session.
18. Closing a channel during a User Defined Tone detection can cause unexpected IBS events in the next IBS detection on this DSP channel. [VI15984]
19. When the IBS detector is pointed towards the network, Fax & Modem tones are **not** detected from the TDM side.
20. When working with M-factor=6, spurious packet loss may occur. It is recommended therefore to use M-factor < 6. [VI15341]
21. Setting the V.21 Transport Type to Bypass and Fax Transport Type to relay results in entering Fax Relay mode at the 2100 Hz signal. Only at the end of this signal, does the channel enter Bypass mode. [VI15755]
22. If PCM LoopBack is activated, there is no way to know if a new channel being opened is in LoopBack state or not. The parameter should be used for test-purposes only.

- 23. DTMF Relay mode is not operational with channels set to PCI transport.
- 24. RFC 2198 redundancy mode with RFC 2833 is not supported (that is, if a complete DTMF digit was lost, it is not reconstructed). The current RFC 2833 implementation does support redundancy for inter-digit information lost.
- 25. When using FaxTransportType = TransparentWithEvents, the Fax events parameters regarding the side of the fax call (answering or calling) and the number of pages are invalid.
- 26. The function acAddDestinationPoint() cannot connect between 2 TDM end points.
- 27. A channel should **not** be reopened during IBS detection. Such an action could cause the detector to send multiple events on same IBS input.
- 28. The resolution of the duration of digits On time and Off time when dialing to the network using RFC 2833 relay, is dependent on the basic frame size of the coder being used.
- 29. Incoming CNG T.38 packets do **not** switch the channel to T.38 mode.
- 30. When CNG detector is not Transparent, a CNG tone received from the TDM can **not** be detected using the Call Progress Tone detector.
- 31. When using a sample interval of 10 msec or 5 msec, the channels capacity might be reduced.



Note: MEGACO (H.248) and VoPLib/TPNCP are currently **not** supported on the MP product line.

4.6 MGCP Constraints

- 32. The 'mptime' value is **not** supported on remote SDP. [VI25732]
- 33. TimeOut symbol is not supported in Digit Range. I.E D/[0-9A-D#*T] can **not** be used. User should remove the 'T' symbol. [VI25585]
- 34. RBK signal is **not** supported. It is recommended that Call Agents use "rt@connectionID" instead of "rbk(connectionID)" for ring-back over a connection. [VI25606]
- 35. MGCPVersion configuration parameter is **not** functional. [VI25730]
- 36. RG signal can **not** be generated immediately after an RS signal. [25847]
- 37. Long DTMF feature does **not** function correctly. [VI16373]
- 38. TTY signals do **not** function correctly. [VI12747]
- 39. On the Mediant 1000, MGCP is only supported on the analog version.

4.7 Embedded Web Server Constraints

- 40. When using the Web upgrade wizard to upgrade from 4.4 to 4.6, reload the coefficients file in the wizard and do **not** use the 'Use Existing File' option. [VI26505]

4.8 SNMP Constraints

- 41. Only one SNMP manager can access the boards/modules at one time.
- 42. Changing some MGCP default parameters (e.g., Voice volume) via SNMP is NOT supported, as it is possible to change them dynamically through MGCP commands on a call-by-call basis.
- 43. Configuration alarm does **not** clear. [VI15603]
- 44. The following RTP MIB objects are **not** supported:
 - rtpRcvrSRCSSRC
 - rtpRcvrSSRC
 - rtpSenderSSRC
 - rtpRcvrLostPackets
 - rtpRcvrPackets
 - rtpSenderPackets
 - rtpRcvrOctets
 - rtpSenderOctets [VI13465]

4.9 Miscellaneous Constraints

- 45. Flash-burning control for specific files (BurnCASFile, BurnCallProgressToneFile, BurnVXMLFile, BurnVoicePromptsFile) is no longer supported. Everything is now controlled by the new parameter SaveConfiguration.

4.10 Previous Releases

Details of previous releases can be found in the MediaPack Release Notes of Version 4.4, Document # LTRT-61602, published by AudioCodes on September-29-2004.

MGCP & TPNCP**MediaPack MP-124 & MP-11x****Mediant 1000**

Release Notes 4.8



www.audiocodes.com